

In the specification:

Please replace paragraph 88 with the following amended paragraph:

[0088] Another application where two-dimensional diagonal summing can be used is elemental analysis. To illustrate this, an experimental arrangement similar to that shown in **Figure 1** was used. The sample used was coal, approximately 22 ~~K~~g ~~kg~~, with 100 grams of mercury (powder form) mixed in it. The techniques in this example can be used to identify the mercury in the sample.